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BC8

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/369,510 08/06/99 HOSSACK

J 5050/584

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WM31/0212

EXAMINER

CHOUBIN, M

ART UNIT

PAPER NUMBER

2621

DATE MAILED:

02/12/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/369,510

Applicant(s)

Hossack

Examiner
Choobin Mahmood

Group Art Unit
2621



☐ Responsive to communication(s) filed on _____

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 24-39 is/are pending in the application

Of the above, claim(s) _____ is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 24-39 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 28 and 36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 28 and 36, these claims are indefinite because applicant fails to define "substantially co-planar, partially overlapping spatial regions".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 24-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Rebecca Gandini (U.S. 5645066).

As to claims 24 and 32, Gandini et al disclose a medical diagnostic ultrasound imaging method comprising:

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- (a) acquiring image data for a plurality of frames, each frame identified with a respective phase of a physiological cycle; (column 4, line 46-55)
- (b) generating a first image from image data from at least two of the frames associated with a first phase of the physiological cycle, multi-frame data set from the image data by registering the image data based on image motion between the frames, (column 4, line 45-55)
- (c) generating a second image from image data from at least two of the frames associated with a first phase of the physiological cycle, multi-frame data set from the image data by registering the image data based on image motion between the frames, (column 2, line 65-67 and column 4, line 4-10);
- (d) displaying at least the first and second images in sequence to a user (column 2, line 61-65).

As to claims 25,31,33 and 39, Gandini et al disclose a extended field of view data set(column 6, line 40-55).

As to claims 26,27,34 and 35 Gandini et al disclose frames are acquired from different spatial regions (column 5, line 66 though column 6, line 10, ROI corresponds to a spatial region)

As to claims 28,29,36 and 37 Gandini et al disclose frames are acquired from substantially co-planar, partially overlapping (column 6, lines 27-39 and Fig.2, step 82).

As to claims 30 and 38, Gandini et al disclose means for registering the image data in 3-D data set (Fig.2 step84).

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CONTACT INFORMATION

Any inquiry concerning this communication from the examiner should be directed to Mahmood Choobin whose telephone number is (703) 306-5787.

The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Leo Boudreau, can be reached at (703) 305-4706.

Any response to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or faxed to: (703) 308-9051, (for formal communications intended for entry), (703) 308-5397 (for informal or draft communications, please label "PROPOSED" or "DRAFT").

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

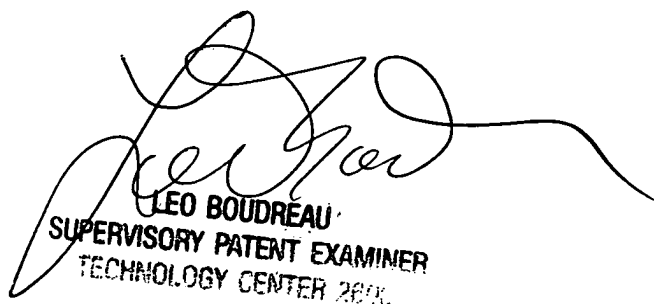
Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703)305-3900.

Mahmood Choobin

Patent Examiner

Group Art 2621

February 8, 2001


LEO BOUDREAU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2621